

PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 85 (BUCKEYSTOWN PIKE AT SPECTRUM DRIVE / ENTR. TO SAM'S CLUB IN FREDERICK COUNTY. MD 85 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION.

THE MEDIAN AT THE ENTRANCE TO SAM'S CLUB IS BEING REMOVED AND THE LANE CONFIGURATION IS BEING MODIFIED. THE PHASING IS BEING CHANGED FROM AN EB/WB SPLIT PHASE TO EXCLUSIVE LEFT TURNS AND CONCURRENT THROUGH MOVEMENTS.

INTERSECTION OPERATION

THE EXISTING CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE UTILIZED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 8 NEMA PHASES. THERE IS AN EXCLUSIVE LEAD/LAG LEFT TURN PHASE FOR THE NORTH AND SOUTHBOUND MOVEMENTS OF MD 85 WITH A CONCURRENT NORTHBOUND RIGHT TURN OVERLAP. THE MD 85 THROUGH MOVEMENTS OPERATE CONCURRENTLY. THE EXISTING SPLIT PHASE OPERATION FOR SPECTRUM DR/ SAM'S CLUB ENTR. WILL BE CHANGED TO EXCLUSIVE LEFT TURNS FOR BOTH THE EAST AND WESTBOUND DIRECTIONS ALONG WITH CONCURRENT THROUGH MOVEMENTS.

SPECIAL NOTES

1. THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. JOHN CONCANNON, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8140
MR. JOHN HUCHROWSKI, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (301) 624-8200
MR. RAYMOND F. JOHNSON, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 624-8105
MS. ANDREA ABEND, UTILITY ENGINEER
PHONE: (301) 624-8115
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. EDWARD RODENWIZER, SUPERVISOR, SIGNAL OPERATIONS
PHONE: (410) 787-7652

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.
NONE.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION
LUMP SUM	LS	MAINTENANCE OF TRAFFIC
LUMP SUM	LS	MOBILIZATION
4	EA	12 IN. 3-SECTION LED SIGNAL HEAD - SPAN
5	EA	12 IN. 3-SECTION LED SIGNAL HEAD (RA,YA,GA) - SPAN
1	EA	30 IN.X 36 IN. R3-5(L) REGULATORY SIGN - SPAN
2	EA	18 IN.X 30 IN. R4-7(1) REGULATORY SIGN - GROUND
30	LF	2 IN. SQUARE PERFORATED STEEL TUBE SIGN SUPPORT
70	LF	5-CONDUCTOR CABLE (NO. 14 AWG)
1170	LF	7-CONDUCTOR CABLE (NO. 14 AWG)
140	LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE
2	EA	NEMA SWITCH
2	EA	RELOCATE EXISTING SIGN - SPAN
LUMP SUM	LS	REMOVE EXISTING SIGNAL EQUIPMENT

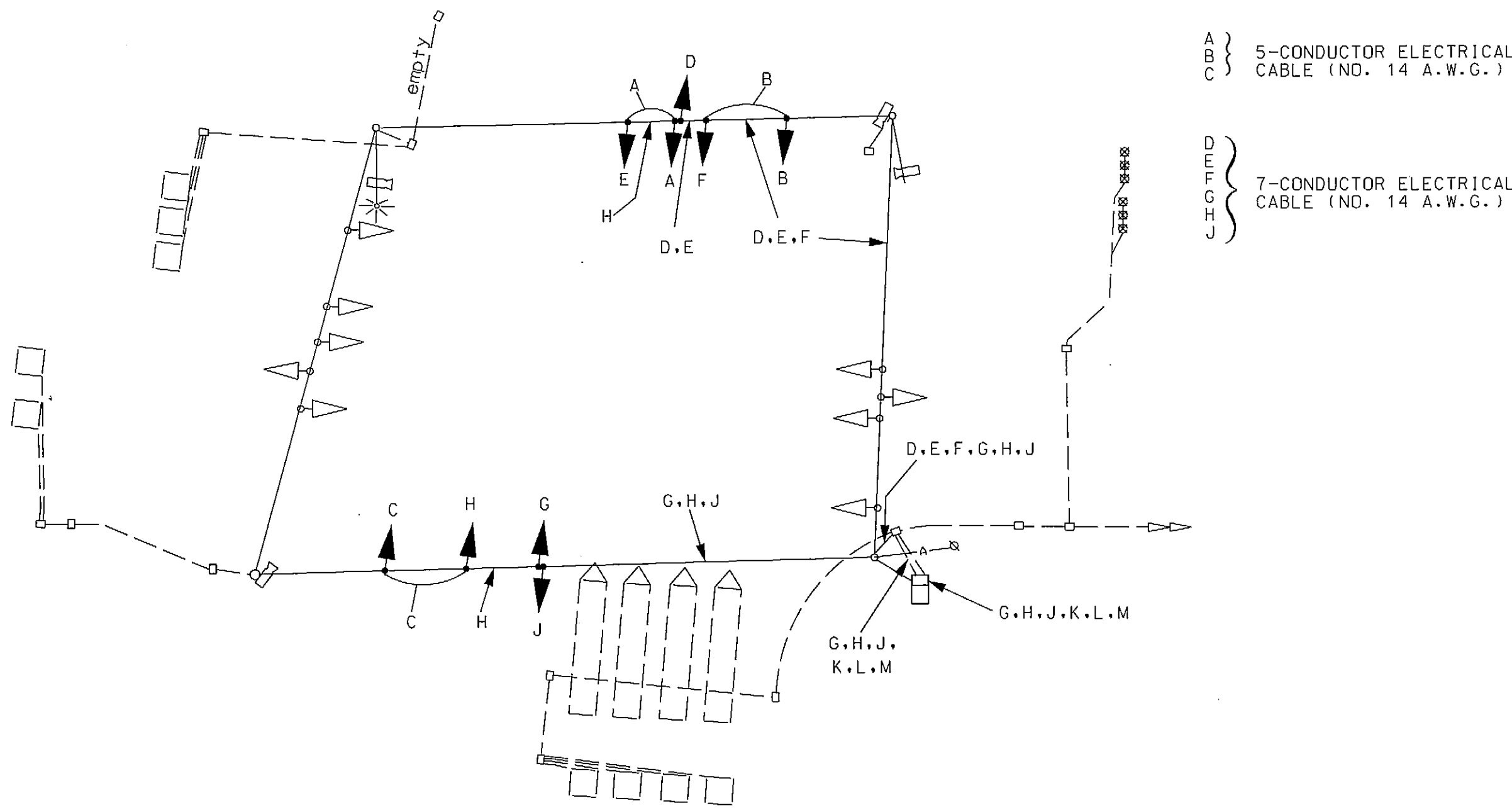
GENERAL NOTES

- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH MD-SHA STANDARDS. ALL OTHER PAVEMENT MARKINGS ARE TO BE CONSIDERED AS EXISTING.
- GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03. MD 818.01. MD 818.02. MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
- ALL UNUSED CABLE SHALL BE REMOVED.

Phase Chart

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 AND 6	←G-	←G-	G	G	←R-	←R-	←R-	R	R	←R-	←R-	R	R	←R-	←R-	←R-	R	R
1 CHANGE	←Y-	←Y-	G	G	←R-	←R-	←R-	R	R	←R-	←R-	R	R	←R-	←R-	←R-	R	R
PHASE 2 AND 6	←R-	←R-	G	G	←R-	←R-	←R-	G	G	←R-	←R-	R	R	←R-	←R-	←R-	R	R
6 CHANGE	←R-	←R-	Y	Y	←R-	←R-	←R-	G	G	←R-	←R-	R	R	←R-	←R-	←R-	R	R
PHASE 2 AND 5	←R-	←R-	R	R	←G-	←G-	←G-	G	G	←R-	←R-	R	R	←R-	←R-	←R-	R	R
2 AND 5 CHANGE	←R-	←R-	R	R	←Y-	←Y-	←Y-	Y	Y	←R-	←R-	R	R	←R-	←R-	←R-	R	R
PHASE 3 AND 7 AND OL	←R-	←R-	R	R	←G-	←G-	←G-	R	R	←G-	←G-	R	R	←G-	←G-	←G-	R	R
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8																		
PHASE 3 AND 8 AND OL	←R-	←R-	R	R	←G-	←G-	←G-	R	R	←R-	←R-	R	R	←G-	←G-	←G-	G	G
3 AND OL CHANGE	←R-	←R-	R	R	←Y-	←Y-	←Y-	R	R	←R-	←R-	R	R	←Y-	←Y-	←Y-	G	G
PHASE 4 AND 7	←R-	←R-	R	R	←R-	←R-	←R-	R	R	←G-	←G-	G	G	←R-	←R-	←R-	R	R
7 CHANGE	←R-	←R-	R	R	←R-	←R-	←R-	R	R	←Y-	←Y-	G	G	←R-	←R-	←R-	R	R
PHASE 4 AND 8	←R-	←R-	R	R	←R-	←R-	←R-	R	R	←R-	←R-	G	G	←R-	←R-	←R-	G	G
4 AND 8 CHANGE	←R-	←R-	R	R	←R-	←R-	←R-	R	R	←R-	←R-	Y	Y	←R-	←R-	←R-	Y	Y
FLASHING OPERATION	FL/	FL/	FL/Y	FL/Y	FL/	FL/	FL/	FL/Y	FL/Y	FL/	FL/	FL/R	FL/R	FL/	FL/	FL/	FL/R	FL/R

Wiring Diagram



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 85 (BUCKEYSTOWN PIKE) AT
SPECTRUM DRIVE /ENTRANCE TO SAM'S CLUB

FREDERICK, MD

GENERAL INFORMATION PLAN

SCALE N/A DATE AUGUST 26, 2011 CONTRACT NO. BW996M82

DESIGNED BY J. STORCK COUNTY FREDERICK
DRAWN BY J. STORCK LOGMILE 10008509.55
CHECKED BY -- TMS NO. K-955
F.A.P. NO. N/A TOD NO. N/A

TS NO. 2277-M DRAWING SG - 01 OF 01 SHEET NO. 2 OF 2

PLOTTED: Friday, August 26, 2011 AT 04:14 PM
FILE: F:\2010\2010-0807\Des\TEDD\SSG-M085@Spectrum.dgn

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